

## Biology - FSC Part 1 Biology English Medium Chapter 2 Preparation

Q1. Define Metabolism.Name its process.
Ans 1: All the chemical reaction taking place within a cell are collectively called as metabolism.  Types:Anabolism,Catabolsim
Q2. How many chains of amino acids are present in hemoglobin,also mention number of amino acids in hemoglobin.
Ans 1: There are four chains in hemoglobin two alpha and two beta chains, amino acids are 574.
Q3. What are Lipids?Give two function of waxes.
Ans 1: The lipids are the heterogeneous group of compounds related to fatty acids is insoluble in water but soluble in organic solvents such as ether, alcohol, chloroform and benzene etc.  Waxes are wide spread as protective coating on fruits and leaves.  Waxes protect plants from water loss and abrasive damage.
Q4. Define monosaccharides with examples.
<b>Ans 1:</b> Monosaccharides are simplest,more sweet sugars,which can not be hydrolyzed into simpler sugars.example are Ribose,Glucose.
Q5. What are terpenoids?
<b>Ans 1:</b> Terpenoids are very large and important group of compound which are made up of repeating units called isoprenopid units. This unit by condensation in different ways gives rise to compound such as rubber, carotenoids, steroids and terpens.
Q6. How amino acids differs from each other?
Ans 1: All the amino acids have an amino group and a carboxyl group attached to the same carbon atom called alpha carbon.
Q7. What is function of ribosomal RNA?
Ans 1: Ribosomal RNA is a part of ribosmes.lt is used to make ribosomes in the cell.

Q8. Define Heat of vaporization, what is heat of vaporization of water?

**Ans 1:** Water absorb much as of heat as changes from liquid to gas. Heat of vaporization is expressed as calories absorbed per gram of vaporized water.

The specific heart of vaporization of water 574 k cal/kg.

## Q9. What is glycosidic bond?

**Ans 1:** A covalent bond between monosaccharide molecules is called glycosidic bond. During formation of glycoside bond hydroxyl group of one glucose unit and hydrogen of second glucose molecules react to from water and resulting bond is called glycoside bond.

## Q10. Define Protective role of water.

**Ans 1:** Water is effective lubricant that provide a protection against damages resulting from fiction, For Example tears protect the surface of eye from rubbing of eyelids. Water also forms a fluid cushion around organs that helps to protect them from trauma.